## IN THE CLAIMS

Please amend the claims as follows:

- 1 1. (currently amended) An apparatus for controlling modulation of an alternating waveform
- on a direct current (DC) signal intended for a load, said apparatus comprising: 2
  - a DC power supply for providing a DC voltage; and
- a mixing/switching circuit configured to having a first transistor and a capacitor for adding a modulating signal to said DC voltage and to for selectively allowing said modulated DC voltage to supply said load, wherein said mixing/switching circuit includes a common control signal input for controlling said adding function and said selectively. allowing function. А
  - 2. cancelled

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- 3. (currently amended) The apparatus of Claim 2 1, wherein said first transistor is an NPN 1
- 2 Darlington transistor.
- 4. (original) The apparatus of Claim 1, wherein said mixing/switching circuit includes a 1
- second and third transistors, two resistors and two diodes for selectively allowing said modulated 2
- DC voltage to supply said load. 3
- 5. (original) The apparatus of Claim 4, wherein said second transistor is a PNP transistor and 1
- said third transistor is an NPN transistor. 2
- (original) The apparatus of Claim 1, wherein said apparatus operates either in a 1 б.
- modulation mode or in a disconnect mode. 2

Amendment under 37 C.F.R. § 1.111

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1	7.	(original) A low-noise block (LNB) control device capable of controlling modulation of	
2	an alternating waveform on a direct current (DC) voltage from a DC power supply to an LNI		
3	amp	nplifier, said LNB control device comprising:	
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a power supply feedback line for receiving a power supply feedback signal from said DC power supply;

a power supply control line for sending a control signal to said DC power supply in response to said received power supply feedback signal;

an LNB amplifier feedback line for receiving a LNB amplifier feedback signal from said LNB amplifier; and

a modulating/switch control line for sending a modulating/switch control signal to a mixing/switching circuit in response to said received LNB amplifier feedback signal, wherein said modulating/switch control signal adds a modulating waveform to said DC voltage and selectively allows said modulated DC voltage to reach said LNB amplifier.

- 8. (original) The LNB control device of Claim 7, wherein said mixing/switching circuit is coupled between said DC power supply and said LNB amplifier.
- 9. (original) The LNB control device of Claim 8, wherein said mixing/switching circuit is configured to add a modulating signal to said DC voltage and to selectively allow said modulated DC voltage to supply said LNB amplifier, wherein said mixing/switching circuit includes a common control signal input for controlling said adding function and said selectively allowing function.
- 1 10. (original) The LNB control device of Claim 9, wherein said mixing/switching circuit includes a first transistor and a capacitor for adding said modulating signal to said DC voltage.

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- 1 (original) The LNB control device of Claim 10, wherein said first transistor is an NPN
- 2 Darlington transistor.
- 12. (currently amended) The LNB control device of Claim 9 10, wherein said mixing/ 1
- switching circuit includes a second and third transistors, two resistors and two diodes for 2
- selectively allowing said modulated DC voltage to supply said load. 3
- 13. (original) The LNB control device of Claim 12, wherein said second transistor is a PNP 1
- transistor and said third transistor is an NPN transistor. 2
- 14. (original) The LNB control device of Claim 9, wherein said mixing/switching circuit 1
- 2 operates either in a modulation mode or in a disconnect mode.